

WHAT IS CLAIMED IS:

1. A mobile communication service control system comprising:

5 a home location register storing subscriber information;

10 a switching unit for sending to said home location register a subscriber information inquiry signal to inquire about said subscriber information upon processing of an incoming call; and

15 a service control unit for controlling a service provided for subscribers,

wherein said home location register stores service information necessary for a start of control of said service at said service control unit and sends said service information along with a response signal to said subscriber information inquiry signal to said switching unit,

20 wherein said switching unit transfers said service information received from said home location register, to said service control unit, and

25 wherein said service control unit starts the control of said service when receiving said service information from said switching unit.

2. The mobile communication service control system according to Claim 1, wherein when a service available for a subscriber is on, said service control

unit sends a service-on-signal to said home location register, and

wherein said home location register sends said service information along with the response signal to said subscriber information inquiry signal to said switching unit only when receiving said subscriber information inquiry signal in a received state of said service-on-signal.

3. The mobile communication service control system according to Claim 1, wherein said home location register controls a predetermined register-side service and incorporates information about whether said register-side service is on, into said service information,

wherein said service control unit stores priority data indicating which is to be more preferentially started to control between said register-side service controlled at said home location register and said service controlled at said service control unit, and

wherein said service control unit determines a service to be started to control, based on said service information and said priority data.

4. The mobile communication service control system according to Claim 2, wherein said home location register controls a predetermined register-side service, wherein said service information indicates

TOP SECRET - SECURITY INFORMATION

whether said register-side service controlled at said home location register is on, and

wherein when said service information indicates that said register-side service is on, said service control unit, having received said service information, controls said register-side service in place of said home location register.

5. The mobile communication service control system according to Claim 4, wherein said service control unit controls at least a service with a higher priority for a start of control than that of said register-side service,

10 wherein said service information indicates whether said register-side service controlled at said home location register is on, and,

15 wherein when said service information indicates that said register-side service is on, said service control unit, having received said service information, controls said register-side service in place of said home location register after the service control unit confirms that the service with the higher priority for the start of control than that of said register-side service is off or when a telecommunications circuit is still maintained after completion of the control of the service with the higher priority.

20
25 6. The mobile communication service control

system according to Claim 5, wherein said register-side service controlled at said home location register is a service of disconnecting the telecommunications circuit unless a caller's mobile communication terminal
5 displays its own phone number, and

wherein the service with the higher priority for the start of control than that of said register-side service, controlled at said service control unit, is a service of disconnecting a telecommunications circuit
10 when a phone number of a caller's mobile communication terminal coincides with a predetermined phone number.

7. The mobile communication service control system according to Claim 4, wherein when said home location register receives said subscriber information inquiry signal without reception of said service-on-signal, said home location register controls said register-side service without sending said service information to said switching unit.
15

8. The mobile communication service control system according to Claim 1, wherein said service information is accompanied by a specific identifier indicating succession of said service information and by data length information about a data length of said service information, and
20

25 wherein when said switching unit determines that the information received from said home location

register includes said specific identifier, said switching unit transfers information successive to said data length information by said data length, to said service control unit.

5 9. A mobile communication service control method of controlling a service by cooperation of a home location register storing subscriber information; a switching unit for sending to said home location register a subscriber information inquiry signal to inquire about said subscriber information upon processing of an incoming call; and a service control unit for controlling a service provided for subscribers,

10 wherein said home location register stores service information necessary for a start of control of said service at said service control unit and sends said service information along with a response signal to said subscriber information inquiry signal to said switching unit,

15 wherein said switching unit transfers said service information received from said home location register, to said service control unit, and

20 wherein said service control unit starts the control of said service when receiving said service information from said switching unit.

25 10. The mobile communication service control method according to Claim 9, wherein when a service

available for a subscriber is on, said service control unit sends a service-on-signal to said home location register, and

5 . wherein said home location register sends said service information along with the response signal to said subscriber information inquiry signal to said switching unit only when receiving said subscriber information inquiry signal in a received state of said service-on-signal.

10 11. The mobile communication service control method according to Claim 9, wherein said home location register controls a predetermined register-side service and incorporates information about whether said register-side service is on, into said service information,

15 wherein said service control unit stores priority data indicating which is to be more preferentially started to control between said register-side service controlled at said home location register and said service controlled at said service control unit, and

20 wherein said service control unit determines a service to be started to control, based on said service information and said priority data.

25 12. The mobile communication service control method according to Claim 10, wherein said home location register controls a predetermined register-

side service,

wherein said service information indicates whether said register-side service controlled at said home location register is on, and

5 wherein when said service information indicates that said register-side service is on, said service control unit, having received said service information, controls said register-side service in place of said home location register.

10 13. The mobile communication service control method according to Claim 12, wherein said service control unit controls at least a service with a higher priority for a start of control than that of said register-side service,

15 wherein said service information indicates whether said register-side service controlled at said home location register is on, and,

wherein when said service information indicates that said register-side service is on, said service control unit, having received said service information, controls said register-side service in place of said home location register after the service control unit confirms that the service with the higher priority for the start of control than that of said register-side 25 service is off or when a telecommunications circuit is still maintained after completion of the control of the

SEARCHED

service with the higher priority.

14. The mobile communication service control method according to Claim 13, wherein said register-side service controlled at said home location register is a service of disconnecting the telecommunications circuit unless a caller's mobile communication terminal displays its own phone number, and

wherein the service with the higher priority for the start of control than that of said register-side service, controlled at said service control unit, is a service of disconnecting a telecommunications circuit when a phone number of a caller's mobile communication terminal coincides with a predetermined phone number.

15. The mobile communication service control method according to Claim 12, wherein when said home location register receives said subscriber information inquiry signal without reception of said service-on-signal, said home location register controls said register-side service without sending said service information to said switching unit.

16. The mobile communication service control method according to Claim 9, wherein said service information is accompanied by a specific identifier indicating succession of said service information and by data length information about a data length of said service information, and

wherein when said switching unit determines that
the information received from said home location
register includes said specific identifier, said
switching unit transfers information successive to said
5 data length information by said data length, to said
service control unit.

ROUTINE, E9947001